

CBM CAPTURE LATCH ASSEMBLY R&R GENERIC

OBJECTIVE:

This procedure removes and replaces a failed CBM Capture Latch Assembly.

LOCATION:

Installed: Active CBM docking ring

Stowed: √ Maint Dbase

DURATION:

30 minutes

PARTS:

CBM Capture Latch Assembly (P/N 683-13621-2)

MATERIALS:

None

TOOLS REQD:

Equipment Bag

Tether

Scopemeter

Kit E:

Ratchet 3/8" Drive

Ratchet 1/4" Drive

Kit D:

3/16" Hex Head, 3/8" Drive

6", 3/16" Ball Tip Hex Head Driver, 1/4" Drive*

Kit C:

Kit F:

7/16" Socket, 1/4" Drive

3/8" Socket, 3/8" Drive

Kit G:

(30-200 in-lbs) Trq Wrench, 3/8" Drive

REFERENCED PROCEDURE:

CBM ACTIVATION AND CAPTURE LATCH CHECKOUT

SAFE

WARNING

Failure to remove power can result in electrical shock hazard.

1. ✓ CBM Controller Pwr OFF

ACCESS

2. If required, remove vestibule closeout for access by unfastening 1/4 turn fasteners (Tm pry stow).
3. If required, remove ACBM Alignment Guides for access by loosening fasteners (five per Alignment Guide) (Ratchet 3/8" Drive, 3/8" Socket) (Tm pry stow).
4. If capture latch assembly cannot be accessed because of an adjacent powered bolt assembly, go to CBM Pwr Bolt R&R Generic procedure, perform REMOVE steps and return to step 5. of this procedure.

REMOVE

5. Demate power connector (P2) from Capture Latch Actuator Assembly (J1).
6. Disconnect Capture Latch Actuator ground wire from ACBM ring (Ratchet 1/4" Drive, 7/16" Socket).

NOTE

If capture latch is not in latched position, access to two (of four) captive fasteners holding capture latch assembly to ACBM ring may require additional access steps. See step TBD.

7. Loosen fasteners (four) (Ratchet 1/4" Drive, 6", 3/16" Ball Tip Hex Head Driver).
8. Grasp Capture Latch Assembly by middle of capture arm, lift up until assembly clears edge of capture fitting.
9. Tilt Capture Latch Assembly towards passive ring, lift assembly up and through cutout in ACBM ring (label, Tm pry stow).
10. Demate switch connector P3 from Capture Latch Assembly.

REPLACE

11. Mate switch connector P3 to switch receptacle on replacement Capture Latch Assembly
12. Install replacement Capture Latch Assembly by grasping middle portion of capture arm and lowering actuator end down through cutout in ACBM ring.
13. Tighten fasteners (four), torque to 95 ± 5 in-lbs (Ratchet 3/8" Drive, 3/16" Hex Head, (30-200 in-lb) Trq Wrench).
14. Connect Capture Latch Actuator ground wire to ACBM ring (Ratchet 1/4" Drive, 7/16" Socket).
15. Mate power connector (P2) to capture latch actuator power receptacle (J1).

CHECK-OUT

16. Check for continuity between casing of Capture Latch Actuator casing and ACBM ring structure (Scopemeter).
17. Perform *CBM activation and capture latch checkout procedure.*
(Include steps to index rotational position of capture latch actuator to known rotational position of capture latch).

CLOSE-OUT

18. If powered bolt assembly was removed, go to CBM Pwr Bolt R&R Generic procedure, perform REPLACE and CLOSE-OUT steps.

NOTE

Four pins on alignment guide mate with four alignment pin holes on ACBM ring.

19. If ACBM alignment guides were removed, replace alignment guides, tighten fasteners (five) 1/4 turn past snug (Ratchet 3/8" Drive, 3/8" Socket).
20. If vestibule closeout was removed, install vestibule closeout, tighten 1/4 turn fasteners (tbd number).

POST MAINTENANCE

21. Stow failed Capture Latch Assembly, tools, equipment.
22. Update Maint Dbase.